

L1

1 S E3

FILE 'CA, CAPLUS, CAOLD, BIOBUSINESS, BIOSIS, CEN, CIN, CSCHEM, CSNB, IFICDB, TOXLIT, USPATFULL, IPA, PIRA, PROMT, VTB' ENTERED AT 09:44:27 ON 13 MAY 1999

L2 619 S 29759-38-4
L3 1901646 S EXTRACT?
L4 6 S L2 AND L3
L5 10 S L1 AND L3
L6 545108 S DISTILL?
L7 11 S (L1 OR L2) AND L6
L8 1514316 S SOLVENT
L9 53 S L8 AND (L1 OR L2)
L10 1954777 S ROSEMARY OR ORGANIC OR SAGE OR THYME OR GINGER OR MARIGOLD
L11 15 S L9 AND L10
L12 231012 S ANTIOXIDANT
L13 2 S L9 AND L12
L14 94161 S PERFUME
L15 6 S (L1 OR L2) AND L14
L16 0 S L8 AND L15
L17 15810 S (L3 OR L6) AND L14
L18 0 S L17 AND (L1 OR L2)

FILE 'REGISTRY' ENTERED AT 10:13:43 ON 13 MAY 1999

E ROSEMARY
E ROSEMARY/CN
L19 3 S E6 OR E7 OR E1 OR E12 OR E5

FILE 'AGRICOLA, ANABSTR, BIOSIS, CHEMCATS, CHEMLIST, CIN, CSCHEM, DRUGU, EMBASE, MEDLINE, IPA, MSDS-OHS, NIOSHTIC, TOXLINE, USPATFULL, CAPLUS, CAOLD, BIOBUSINESS' ENTERED AT 10:32:34 ON 13 MAY 1999

L20 0 S (L1 OR L2) AND L19
L21 4 S (L1 OR L2) AND L12
L22 1255210 S L8 OR L6 OR L3 AND (L21)
L23 2 S (L8 OR L6 OR L3) AND (L21)
L24 1569109 S FOOD OR BEVERAGE OR PERFUME OR EDIBLE
L25 3 S L24 AND (L1 OR L2)

FILE 'CA, CAPLUS, CAOLD, BIOBUSINESS, BIOSIS, CEN, CIN, CSCHEM, CSNB, IFICDB, TOXLIT, USPATFULL, IPA, PIRA, PROMT, VTB' ENTERED AT 09:44:27 ON 13 MAY 1999

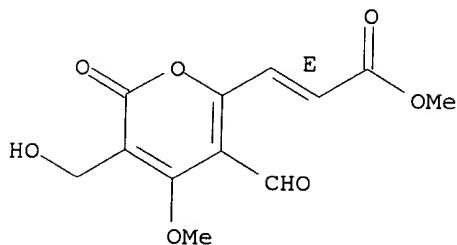
L2 619 S 29759-38-4
L3 1901646 S EXTRACT?
L4 6 S L2 AND L3
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L14 94161 S PERFUME
L15 6 S (L1 OR L2) AND L14
L16 0 S L8 AND L15
L17 15810 S (L3 OR L6) AND L14
L18 0

L19 ANSWER 1 OF 3 REGISTRY COPYRIGHT 1999 ACS
 RN 93348-55-1 REGISTRY *
 * Use of this CAS Registry Number alone as a search term in other STN files
 may
 result in incomplete search results. For additional information, enter HELP
 RN* at an online arrow prompt (=>).
 CN **Rosemary, Rosmarinus officinalis genuina, ext.** (CA INDEX NAME)
 DEF Extractives and their physically modified derivatives such as tinctures,
 concretes, absolutes, essential oils, oleoresins, terpenes, terpene-free
 fractions, distillates, residues, etc., obtained from *Rosmarinus*
officinalis genuina, Labiateae.
 MF Unspecified
 CI MAN, CTS
 LC STN Files: CHEMLIST
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

=> d ide 2

L19 ANSWER 2 OF 3 REGISTRY COPYRIGHT 1999 ACS
 RN 61486-69-9 REGISTRY
 CN 2-Propenoic acid,
 3-[5-formyl-3-(hydroxymethyl)-4-methoxy-2-oxo-2H-pyran-6-
 yl]-, methyl ester, (E)- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN **Rosellisin aldehyde**
 FS STEREOSEARCH
 MF C12 H12 O7
 LC STN Files: AGRICOLA, BIOBUSINESS, CA, CAPLUS, NAPRALERT

Double bond geometry as shown.



4 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d ide 3

L19 ANSWER 3 OF 3 REGISTRY COPYRIGHT 1999 ACS
 RN 8000-25-7 REGISTRY *
 * Use of this CAS Registry Number alone as a search term in other STN files
 may
 result in incomplete search results. For additional information, enter HELP
 RN* at an online arrow prompt (=>).
 CN Oils, rosemary (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Essential oils, rosemary
CN Oils, essential, rosemary
CN **Rosemary oil**

OTHER NAMES:

CN Essential rosemary oil
CN Oils, Rosmarinus officinalis
CN **Rosemary essential oils**
CN **Rosemary leaf oil**
CN **Rosemary oil**
CN Rosmarinus officinalis leaf oils
CN Rosmarinus officinalis oil

DEF Extractives and their physically modified derivatives. Rosmarinum officinalis, Labiatae.

MF Unspecified

CI MAN, CTS

LC STN Files: AGRICOLA, ANABSTR, BIOSIS, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, RTECS*, TOXLINE, USPATFULL, VETU

(*File contains numerically searchable property data)

Other Sources: DSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 1999 ACS
 AN 1998:677844 CAPLUS
 DN 129:306495
 TI Solvent extraction with fluorinated hydrocarbons
 IN Nicola, Mazin
 PA Advanced Phytonics Limited, UK
 SO PCT Int. Appl., 20 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM B01D011-02
 CC 63-4 (Pharmaceuticals)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9845013	A1	<u>19981015</u>	WO 98-GB1037	19980408
	W: US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
PRAI	GB 2324050	A1	<u>19981014</u>	GB 98-7452	<u>19980408</u>
	GB 97-7130		<u>19970408</u>		
AB	A process for the extn. of at least one relatively polar component from a material which may be naturally occurring or a synthetic mixt., the process comprising the steps of: (a) contacting the material with a solvent mixt. comprising a C1 to C4 fluorinated hydrocarbon, esp. <u>1,1,1,2-tetrafluoroethane (I)</u> and a co-solvent having a dielec. const.				
(at	20 .degree.C) of at least 5; and (b) sepg. the charged solvent from said material, thereby to isolate said material. Ginger root was extd. with I and I mixed with 10% acetone. The ext. was dried to obtain an oil. The yield was 0.83 and 1.43% for I and the mixt., resp.				
ST	solvent extrn fluorinated hydrocarbon; ginger root ext tetrafluoroethane acetone				
IT	Fluoro hydrocarbons				
	RL: NUU (Nonbiological use, unclassified); USES (Uses) (C1-4; solvent extn. with fluorinated hydrocarbons)				
IT	Marigold (flowers; solvent extn. with fluorinated hydrocarbons)				
IT	Sage (Salvia) Thyme (Thymus) (leaves; solvent extn. with fluorinated hydrocarbons)				
IT	Ginger (root; solvent extn. with fluorinated hydrocarbons)				
IT	Rosemary (solvent extn. with fluorinated hydrocarbons)				
IT	Alcohols, uses				
	Amides, uses				
	Carboxylic acids, uses				
	Cyanides (inorganic), uses				
	Inorganic acids				
	Ketones, uses				
	Nitro compounds				
	Organic acids				
	Sulfoxides				
	RL: NUU (Nonbiological use, unclassified); USES (Uses) (solvent extn. with fluorinated hydrocarbons)				
IT	Organic compounds, uses				
	RL: NUU (Nonbiological use, unclassified); USES (Uses) (sulfur-contg.; solvent extn. with fluorinated hydrocarbons)				

IT 811-97-2, 1,1,1,2-Tetrafluoroethane 7664-41-7, Ammonia, uses
29759-38-4, Tetrafluoroethane
RL: NUU (Nonbiological use, unclassified); USES (Uses)
(solvent extn. with fluorinated hydrocarbons)